BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Improvements to roads and drains of mariyannapalya and surrounding areas in ward no.07 Byataranapura.

MEASUREMENTS SHEETS

Estimate cost:50.00 lakhs

Ward 7 byatarayanapura

BRUHAT BANGALORE MAHANAGARA PALIKE

MEASURMENT SHEETS

Name of the work :- Improvements to roads and drains of mariyannapalya and surrounding areas in ward no.07 Byataranapura.

Item name:-01	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications

SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	Gaare Chinappa Layout							
	7th Cross							
	CH 0.00m to 30.00m		2	30.00	1.05	0.80	50.40	
	CH 30.0m to 60.00m		2	30.00	1.05	0.80	50.40	
	CH 60.00m to 90.00m		2	30.00	1.05	0.80	50.40	
	CH 90.00m to 120.00m		2	30.00	1.05	0.80	50.40	
	CH 120.00m to 150.00m		2	30.00	1.05	0.80	50.40	
	CH 150.00m to 180.00m		2	30.00	1.05	0.80	50.40	
	CH 180.00m to 210.00m		2	30.00	1.05	0.80	50.40	
	CH 210.00m to 216.00m		2	6.00	1.05	0.80	10.08	
	1st Cross							
	CH 0.00m to 30.00m		1	30.00	1.05	0.75	23.63	
	GKVK Layout							
	CH 0.00m to 30.00m		1	30.00	1.20	1.30	46.80	
	CH 30.0m to 60.00m		1	30.00	1.20	1.30	46.80	
	CH 60.00m to 90.00m		1	30.00	1.20	1.30	46.80	
	CH 90.00m to 112.50m		1	22.50	1.20	1.30	35.10	
		cum			**Net Qty**		**562.01**	
					Qty Limited To		**443.48**	

Cert. 7/2/2020

NDP DE(HQ) 7/2/2020

PMC

Assistant Executive Engineer, Byatarayanapura Sub-division KRIDL, BBMP Bangalore

Assistant Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Item No:- 2								
Item name:- 2.		KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification .						
SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	RCC DRAIN-BOTTOM							
	Gaare Chinappa Layout							
	7th Cross							
	CH 0.00m to 30.00m		2	30.00	1.05	0.15	9.45	
	CH 30.0m to 60.00m		2	30.00	1.05	0.15	9.45	
	CH 60.00m to 90.00m		2	30.00	1.05	0.15	9.45	
	CH 90.00m to 120.00m		2	30.00	1.05	0.15	9.45	
	CH 120.00m to 150.00m		2	30.00	1.05	0.15	9.45	
	CH 150.00m to 180.00m		2	30.00	1.05	0.15	9.45	
	CH 180.00m to 210.00m		2	30.00	1.05	0.15	9.45	
	CH 210.00m to 216.00m		2	6.00	1.05	0.15	1.89	
	1st Cross							
	CH 0.00m to 30.00m		1	30.00	1.05	0.15	4.73	
	GKVK Layout							
	CH 0.00m to 30.00m		1	30.00	1.20	0.15	5.40	
	CH 30.0m to 60.00m		1	30.00	1.20	0.15	5.40	
	CH 60.00m to 90.00m		1	30.00	1.20	0.15	5.40	
	CH 90.00m to 112.50m		1	22.50	1.20	0.15	4.05	
		cum			Net Qty		93.02	
					Qty Limited To		88.65	

PMC

Assistant Executive Engineer,
Byatarayanapura Sub-division
KRIDL, BBMP Bangalore

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub-division
Yelahanka Zone, B.B.M.P.
Bangalore.

Item No:- 4								
Item name:- 4		Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.						
SL No	Particulars	Length, M	No	Length, M	Total length,	Density, Kg/M	Quantity, Kg	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	Gaare Chinappa Layout							
	7th Cross							
	Main Bars	0-30M	480	1.75	840.00	0.62	520.80	2 Sides
	Distribution Bars		30	30.00	900.00	0.39	351.00	
	Main Bars	30-60M	480	1.75	840.00	0.62	520.80	2 Sides
	Distribution Bars		30	30.00	900.00	0.39	351.00	
	Main Bars	60-90M	480	1.75	840.00	0.62	520.80	2 Sides
	Distribution Bars		30	30.00	900.00	0.39	351.00	
	Main Bars	90-	480	1.75	840.00	0.62	520.80	2 Sides
	Distribution Bars		30	30.00	900.00	0.39	351.00	
	Main Bars	120-150M	480	1.75	840.00	0.62	520.80	2 Sides
	Distribution Bars		30	30.00	900.00	0.39	351.00	
	Main Bars	150-180M	480	1.75	840.00	0.62	520.80	2 Sides
	Distribution Bars		30	30.00	900.00	0.39	351.00	
	Main Bars	180-210M	480	1.75	840.00	0.62	520.80	2 Sides
	Distribution Bars		30	30.00	900.00	0.39	351.00	
	Main Bars	210-216M	96	1.75	168.00	0.62	104.16	2 Sides
	Distribution Bars		30	6.00	180.00	0.39	70.20	
	1st Cross							
	Main Bars	0-30M	240	1.65	396.00	0.62	245.52	
	Distribution Bars		14	30.00	420.00	0.39	163.80	
	GKVK Layout							
	Main Bars	0-30M	240	2.90	696.00	0.62	431.52	
	Distribution Bars		24	30.00	720.00	0.39	280.80	
	Main Bars	30-60M	240	2.90	696.00	0.62	431.52	
	Distribution Bars		24	30.00	720.00	0.39	280.80	
	Main Bars	60-90M	240	2.90	696.00	0.62	431.52	
	Distribution Bars		24	30.00	720.00	0.39	280.80	
	Main Bars	90-	160	2.90	464.00	0.62	287.68	
	Distribution Bars		24	20.00	480.00	0.39	187.20	
							9298.12	
		Tonne			Total Quantity		9.30	

Executive Engineer
vision
B.B.M.P.

PMC

Assistant Engineer

Assistant Executive Engineer,
Byatarayanapura Sub-division
KRIDL, BBMP Bangalore

Assistant Executive Engineer
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Item No:- 5								
Item name:- 5		Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.						
SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
	SIDE WALL							
	Gaare Chinappa Layout							
	7th Cross							
	CH 0.00m to 30.00m		8	30.00		0.50	120.00	
	CH 30.0m to 60.00m		8	30.00		0.50	120.00	
	CH 60.00m to 90.00m		8	30.00		0.50	120.00	
	CH 90.00m to 120.00m		8	30.00		0.50	120.00	
	CH 120.00m to 150.00m		8	30.00		0.50	120.00	
	CH 150.00m to 180.00m		8	30.00		0.50	120.00	
	CH 180.00m to 210.00m		8	30.00		0.50	120.00	
	CH 210.00m to 216.00m		8	6.00		0.50	24.00	
	1st Cross							
	CH 0.00m to 30.00m		4	30.00		0.45	54.00	
	GKVK Layout							
	CH 0.00m to 30.00m		4	30.00		1.00	120.00	
	CH 30.0m to 60.00m		4	30.00		1.00	120.00	
	CH 60.00m to 90.00m		4	30.00		1.00	120.00	
	CH 90.00m to 112.50m		4	22.50		1.00	90.00	
		sqm			Net Qty		1368.00	
					Qty Limited To		1290.00	NDR Dated 26/4/2020

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Byatarayanapura Sub-division
KRIDL, BBMP Bangalore

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Item No:- 3	
Item name:- 3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.460 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications.

SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
	Date of Mreasurments							
	Bottom							
	Gaare Chinappa Layout							
	7th Cross							
	CH 0.00m to 30.00m		2	30.00	0.75	0.15	6.75	
	CH 30.0m to 60.00m		2	30.00	0.75	0.15	6.75	
	CH 60.00m to 90.00m		2	30.00	0.75	0.15	6.75	
	CH 90.00m to 120.00m		2	30.00	0.75	0.15	6.75	
	CH 120.00m to 150.00m		2	30.00	0.75	0.15	6.75	
	CH 150.00m to 180.00m		2	30.00	0.75	0.15	6.75	
	CH 180.00m to 210.00m		2	30.00	0.75	0.15	6.75	
	CH 210.00m to 216.00m		2	6.00	0.75	0.15	1.35	
	1st Cross							
	CH 0.00m to 30.00m		1	30.00	0.75	0.15	3.38	
	GKVK Layout							
	CH 0.00m to 30.00m		1	30.00	0.90	0.15	4.05	
	CH 30.0m to 60.00m		1	30.00	0.90	0.15	4.05	
	CH 60.00m to 90.00m		1	30.00	0.90	0.15	4.05	
	CH 90.00m to 112.50m		1	22.50	0.90	0.15	3.04	
	Side Wall							
	7th Cross							
	CH 0.00m to 30.00m		4	30.00	0.15	0.50	9.00	
	CH 30.0m to 60.00m		4	30.00	0.15	0.50	9.00	
	CH 60.00m to 90.00m		4	30.00	0.15	0.50	9.00	
	CH 90.00m to 120.00m		4	30.00	0.15	0.50	9.00	
	CH 120.00m to 150.00m		4	30.00	0.15	0.50	9.00	
	CH 150.00m to 180.00m		4	30.00	0.15	0.50	9.00	
	CH 180.00m to 210.00m		4	30.00	0.15	0.50	9.00	
	CH 210.00m to 216.00m		4	6.00	0.15	0.50	1.80	
	1st Cross							
	CH 0.00m to 30.00m		2	30.00	0.15	0.45	4.05	

PMC

Assistant Engineer

Assistant Executive Engineer,
Byatarayanapura Sub-division
KRIDL, BBMP Bangalore

Assistant Executive Engineer
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

	GKVK Layout							
	CH 0.00m to 30.00m		2	30.00	0.15	1.00	9.00	
	CH 30.0m to 60.00m		2	30.00	0.15	1.00	9.00	
	CH 60.00m to 90.00m		2	30.00	0.15	1.00	9.00	
	CH 90.00m to 112.50m		2	22.50	0.15	1.00	6.75	33.75
		cum			**Net Qty**		**169.76**	

Item No:- 6	
Item name:- 6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications.

SL No	**Particulars**	**Unit**	**Nos**	**L**	**B**	**D**	**Qty**	**Remarks**
1	**2**	**3**	**4**	**5.00**	**6.00**	**7.00**	**8.00**	**9**
Date of Mreasurments								
	Covering Slab							
	7th Cross							
	CH 0.00m to 30.00m		100		0.60	0.90	54.00	
	CH 30.0m to 60.00m		100		0.60	0.90	54.00	
	CH 60.00m to 90.00m		100		0.60	0.90	54.00	
	CH 90.00m to 120.00m		100		0.60	0.90	54.00	
	CH 120.00m to 150.00m		100		0.60	0.90	54.00	
	CH 150.00m to 180.00m		100		0.60	0.90	54.00	
	CH 180.00m to 210.00m		100		0.60	0.90	54.00	
	CH 210.00m to 216.00m		20		0.60	0.90	10.80	
	1st Cross							
	CH 0.00m to 30.00m		50		0.60	0.90	27.00	
	GKVK Layout							
	CH 0.00m to 30.00m		50		0.60	1.20	36.00	
	CH 30.0m to 60.00m		50		0.60	1.20	36.00	
	CH 60.00m to 90.00m		50		0.60	1.20	36.00	
	CH 90.00m to 112.50m		38		0.60	1.20	27.36	
		sqm			**Net Qty**		**551.16**	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

PMC

Assistant Executive Engineer,
Byatarayanapura Sub-division
KRIDL, BBMP Bangalore.

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Item No:- 7								
Item name:-	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification							
SL No	Particulars	Unit	Nos	L	B	D	Qty	Remarks
1	2	3	4	5.00	6.00	7.00	8.00	9
Date of Mreasurments								
				Qty same as Item No 1			562.01	
		cum			Net Qty		562.01	
					Qty Limited To		443.48	

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division

Executive Engineer
Byatarayanapura Division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Assistant Executive Engineer,
Byatarayanapura Sub-division
KRIDL, BBMP Bangalore